AUTHOR INDEX TO VOLUME 36 (1990)

Albert, A.D., Frye, J.S. and Yeagle, P.L.
Light-induced membrane protein phosphorylation in the bovine rod outer segment. A magic angle spinning ^{31}P-NMR study (35) 27
Andreasi Bassi, F., see Di Cera, E. (36) 85
Arcovito, G., see Di Cera, E. (36) 85

Bannister, J.V., see Rosato, N. (36) 41
Bannister, W.H., see Rosato, N. (36) 41
Boiden Pedersen, J. and Knudsen, O.
Variability of estimated binding parameters (36) 167
Braibanti, A., see Fisicaro, E. (36) 1
Braibanti, A., see Fisicaro, E. (36) 15

Capecchi, P.L., see Gaggelli, E. (36) 209
Colombo, M.F. and Sanches, R.
Hydration-dependent conformational states of hemoglobin. Equilibrium and kinetic behavior (36) 33
Comper, W.D. and Williams, R.P.W.
Osmotic flow caused by chondroitin sulfate proteoglycan across well-defined Nuclepore membranes (36) 215
Comper, W.D., see Williams, R.P.W. (36) 223

De Cristofaro, R., Landolfi, R. and Di Cera, E.
The linkage between adenosine nucleotide binding and amidase activity in human α-thrombin (36) 77
Di Cera, E., Andreasi Bassi, F. and Arcovito, G.
Point perturbation analysis of experimental data II. The statistics of relaxation length values of pseudo-random errors (36) 85
Di Cera, E., see De Cristofaro, R. (36) 77
Di Cera, E., see Gill, S.J. (36) 95
Di Perri, T., see Gaggelli, E. (36) 209

Feng, Y. and Pilbrow, J.R.
Porphyrin intercalation and non-specific 'edge on' outside binding to natural DNA (36) 117
Finazzi-Agrò, A., see Rosato, N. (36) 41
Fisicaro, E., Braibanti, A., Lamb, J.D. and Oscarson, J.L.
Calculation of site affinity constants and cooperativity coefficients for binding of ligands and/or protons to macromolecules. I. Generation of partition functions and mass balance equations (36) 1
Fisicaro, E., Braibanti, A., Lamb, J.D. and Oscarson, J.L.
Calculation of site affinity constants and cooperativity coefficients for binding of ligands and/or protons to macromolecules. II. Relationships between chemical model and partition function algorithm (36) 15

Frye, J.S., see Albert, A.D. (35) 27
Fuller, M.P., see Singh, B.R. (46) 155

Gaggelli, E., Di Perri, T., Orrico, A., Capecchi, P.L., Laghi Pasini, F. and Valensin, G.
Selective ^{1}H-NMR relaxation investigations of membrane-bound drugs in vitro. 3. Calcium-entry blockers and adenosine (36) 209
Gaggelli, E., see Marchettini, N. (36) 65
Gill, S.J. and Di Cera, E.
Reply to the comment by Plesner (36) 95
Gratton, E., see Rosato, N. (36) 41
Gratton, E., see VanderMeulen, D.L. (36) 177
Gryczynski, I., see Lakowicz, J.R. (36) 99

Hernandez-Borrell, J., Mas, F. and Puy, J.
A theoretical approach to describe monolayer-liposome lipid interaction (36) 47
Hirano, T., Tsuchiya, Y. and Kawakubo, T.
Excitatory potential of artificial membrane in response to current pulse stimulation (36) 133

Iiyama, S., Suezaki, Y., Toko, K., Murata, T., Kamaya, H., Ueda, I. and Yamafuji, K.
Effect of local anesthetics on the electrical characteristics of an excitable model membrane composed of dioleyl phosphate. I. Static and steady-state response (36) 141
Iiyama, S., Toko, K., Murata, T., Suezaki, Y., Kamaya, H., Ueda, I. and Yamafuji, K.
Effect of local anesthetics on the electrical characteristics of an excitable model membrane composed of dioleyl phosphate. II. Dynamic response (36) 149

Jameson, D.M., see VanderMeulen, D.L. (36) 177
Johnson, M.L., see Lakowicz, J.R. (36) 99

Kamaya, H., see Iiyama, S. (36) 141
Kamaya, H., see Iiyama, S. (36) 149
Kawakubo, T., see Hirano, T. (36) 133
Knudsen, O., see Boiden Pedersen, J. (36) 167
Koch, T.S. and Rava, R.P.
Interpreting the visible absorption bands of 1,4-(dihydroxy)-9,10-anthraquinone and its metal chelates (36) 187

Laczko, G., see Lakowicz, J.R. (36) 99
Laghi Pasini, F., see Gaggelli, E. (36) 209

Lakowicz, J.R., Gryczynski, I., Wiczk, W., Laczko, G., Prendergast, F.C. and Johnson, M.L.
Conformational distributions of melittin in water/methanol mixtures from frequency-domain measurements of non-radiative energy transfer (36) 99
Lamb, J.D., see Fisicaro, E. (36) 1
Lamb, J.D., see Fisicaro, E. (36) 15
Lamy, L., Portmann, M.-O., Mathlouthi, M. and Larreta-Garde, V.
Modulation of egg-white lysozyme activity by viscosity intensifier additives (36) 71
Landolfi, R., see De Cristofaro, R. (36) 77
Larreta-Garde, V., see Lamy, L. (36) 71

Marchettini, N., Valensin, G. and Gaggelli, E.
^{1}H-NMR studies on the self-association of chloroquine in aqueous solution (36) 65
Mas, F., see Hernandez-Borrell, J. (36) 47
Mathlouthi, M., see Lamy, L. (36) 71
Mei, G., see Rosato, N. (36) 41
Murata, T., see Iiyama, S. (36) 141
Murata, T., see Iiyama, S. (36) 149

Nealon, D.G., see VanderMeulen, D.L. (36) 177

Orrico, A., see Gaggelli, E. (36) 209
Oscarson, J.L., see Fisicaro, E. (36) 1
Oscarson, J.L., see Fisicaro, E. (36) 15

Pilbrow, J.R., see Feng, Y. (36) 117
Piñeiro, A.L., see Rowe, G. (36) 57
Plesner, I.W.
Comments on 'Analysis and parameter resolution in highly cooperative systems' by S.J. Gill et al. (Biophys. Chem. 30 (1988) 133) (36) 91
Portmann, M.-O., see Lamy, L. (36) 71
Prendergast, F.C., see Lakowicz, J.R. (36) 99
Puy, J., see Hernandez-Borrell, J. (36) 47

Rava, R.P., see Koch, T.S. (36) 187
Rosato, N., Mei, G., Gratton, E., Bannister, J.V., Bannister, W.H. and Finazzi-Agrò, A.
A time-resolved fluorescence study of human copper-zinc superoxide dismutase (36) 41
Rowe, G. and Piñeiro, A.L.
I. The mean-square of the end-to-end distance and of the dipole moment (36) 57

Sanches, R., see Colombo, M.F. (36) 33
Schiavo, G., see Singh, B.R. (46) 155
Shearwin, K.E. and Winzor, D.J.
Allowance for thermodynamic nonideality and Donnan effects in binding studies. Activity coefficients of charged ligands in the presence of albumin (36) 235
Shinohara, Y., Yoshikawa, K. and Terada, H.
Effect of the weakly acidic uncoupler 2,4-dinitrophenol and dimethyl sulfoxide on the coordination of Mg^{2+} with ATP. Possible mechanism of activation of the isolated F_1-ATPase by 2,4-dinitrophenol (36) 201
Singh, B.R., Fuller, M.P. and Schiavo, G.
Molecular structure of tetanus neurotoxin as revealed by Fourier transform infrared and circular dichroic spectroscopy (46) 155
Suezaki, Y., see Iiyama, S. (36) 141
Suezaki, Y., see Iiyama, S. (36) 149

Terada, H., see Shinohara, Y. (36) 201
Toko, K., see Iiyama, S. (36) 141
Toko, K., see Iiyama, S. (36) 149
Tsuchiya, Y., see Hirano, T. (36) 133

Ueda, I., see Iiyama, S. (36) 141
Ueda, I., see Iiyama, S. (36) 149

Valensin, G., see Gaggelli, E. (36) 209
Valensin, G., see Marchettini, N. (36) 65
VanderMeulen, D.L., Nealon, D.G., Gratton, E. and Jameson, D.M.
Excitation wavelength dependent fluorescence anisotropy of eosin-myosin adducts. Evidence for anisotropic rotations (36) 177

Wiczk, W., see Lakowicz, J.R. (36) 99
Williams, R.P.W. and Comper, W.D.
Osmotic flow caused by polyelectrolytes (36) 223
Williams, R.P.W., see Comper, W.D. (36) 215
Winzor, D.J., see Shearwin, K.E. (36) 235

Yamafuji, K., see Iiyama, S. (36) 141
Yamafuji, K., see Iiyama, S. (36) 149
Yeagle, P.L., see Albert, A.D. (35) 27
Yoshikawa, K., see Shinohara, Y. (36) 201

SUBJECT INDEX TO VOLUME 36 (1990)

Absorption spectroscopy
Electronic spectroscopy; Anthracycline (Koch, T.S. (36) 187)

Adenosine
NMR, ^{1}H-; Relaxation; Nimodipine; Diltiazem; Neutrophil (Gaggelli, E. (36) 209)

Anisotropy
Fluorescence; Eosin; Myosin; Lifetime; Perrin plot (Vander-Meulen, D.L. (36) 177)

Anthracycline
Absorption spectroscopy; Electronic spectroscopy (Koch, T.S. (36) 187)

Artificial membrane
Excitatory potential response; Current stimulation (Hirano, T. (36) 133)

F_1-ATPase
ATP hydrolysis; NMR, ^{31}P-; Uncoupler; Dimethyl sulfoxide (Shinohara, Y. (36) 201)

ATP hydrolysis
NMR, ^{31}P-; Uncoupler; Dimethyl sulfoxide; F_1-ATPase (Shinohara, Y. (36) 201)

Base sequence specificity
DNA binding; Theoretical model; Two-mode binding; Ionic strength dependence; Modified matrix method (Feng, Y. (36) 117)

Binding analysis
Variability; Binding parameters; Experimental design (Boiden Pedersen, J. (36) 167)

Binding parameters
Variability; Binding analysis; Experimental design (Boiden Pedersen, J. (36) 167)

Binding polynomial
Thermodynamics; Multiple equilibria; Partition function; Site affinity; Cooperativity (Fisicaro, E. (36) 1)

Cartilage
Osmotic flow; Proteoglycan; Cylindrical pore membrane (Comper, W.D. (36) 215)

CD
Fourier transform infrared spectroscopy; pH effect; Secondary structure; Tetanus neurotoxin (Singh, B.R. (46) 155)

Chemical model
Multiple equilibria; Partition function; Index space; Cooperativity; Computation (Fisicaro, E. (36) 15)

Chloroquine
^{1}H-NMR; Self-association (Marchettini, N. (36) 65)

Computation
Multiple equilibria; Chemical model; Partition function; Index space; Cooperativity (Fisicaro, E. (36) 15)

Conformational energy
Dipole moment; Polypeptide conformation; Polypeptide dimensions (Rowe, G. (36) 57)

Conformational state
Hemoglobin; Hydration; Hemichrome (Colombo, M.F. (36) 33)

Cooperativity
Thermodynamics; Multiple equilibria; Partition function; Site affinity; Binding polynomial (Fisicaro, E. (36) 1)

Multiple equilibria; Chemical model; Partition function; Index space; Computation (Fisicaro, E. (36) 15)

Thermodynamics; Enzyme kinetics (De Cristofaro, R. (36) 77)

Current stimulation
Artificial membrane; Excitatory potential response (Hirano, T. (36) 133)

Cylindrical pore membrane
Osmotic flow; Proteoglycan; Cartilage (Comper, W.D. (36) 215)

Data analysis
Monte Carlo simulation; Residuals (Di Cera, E. (36) 85)

Diffusion constant
Local anesthetic; Excitable lipid membrane; Membrane potential; Membrane resistance; Hydrophobicity (Iiyama, S. (36) 141)

Diltiazem
NMR, ^{1}H-; Relaxation; Nimodipine; Adenosine; Neutrophil (Gaggelli, E. (36) 209)

Dimethyl sulfoxide
ATP hydrolysis; NMR, ^{31}P-; Uncoupler; F_1-ATPase (Shinohara, Y. (36) 201)

Dipole moment
Conformational energy; Polypeptide conformation; Polypeptide dimensions (Rowe, G. (36) 57)

Distance distribution
Fluorescence spectroscopy; Energy transfer; Time-resolved fluorescence; Frequency-domain fluorescence; Melittin (Lakowicz, J.R. (36) 99)

DNA binding
Theoretical model; Two-mode binding; Base sequence specificity; Ionic strength dependence; Modified matrix method (Feng, Y. (36) 117)

Donnan effect
Thermodynamic nonideality; Excluded volume; Gel chromatography; Equilibrium dialysis; Ultrafiltration (Shearwin, K.E. (36) 235)

Electrical oscillation
Local anesthetic; Excitable lipid membrane; Membrane potential; Membrane resistance (Iiyama, S. (36) 149)

Electronic spectroscopy
Absorption spectroscopy; Anthracycline (Koch, T.S. (36) 187)

Energy transfer
Fluorescence spectroscopy; Time-resolved fluorescence; Frequency-domain fluorescence; Melittin; Distance distribution (Lakowicz, J.R. (36) 99)

Enzyme activity
Lysozyme; Viscosity; Water affinity (Lamy, L. (36) 71)

Enzyme kinetics
Thermodynamics; Cooperativity (De Cristofaro, R. (36) 77)

Eosin
Fluorescence; Myosin; Anisotropy; Lifetime; Perrin plot (VanderMeulen, D.L. (36) 177)

Equilibrium dialysis
Thermodynamic nonideality; Donnan effect; Excluded volume; Gel chromatography; Ultrafiltration (Shearwin, K.E. (36) 235)

Excitable lipid membrane
Local anesthetic; Membrane potential; Membrane resistance; Hydrophobicity; Diffusion constant (Iiyama, S. (36) 141)

Local anesthetic; Electrical oscillation; Membrane potential; Membrane resistance (Iiyama, S. (36) 149)

Excitatory potential response
Artificial membrane; Current stimulation (Hirano, T. (36) 133)

Excluded volume
Thermodynamic nonideality; Donnan effect; Gel chromatography; Equilibrium dialysis; Ultrafiltration (Shearwin, K.E. (36) 235)

Experimental design
Variability; Binding parameters; Binding analysis (Boiden Pedersen, J. (36) 167)

Fluorescence
Eosin; Myosin; Anisotropy; Lifetime; Perrin plot (VanderMeulen, D.L. (36) 177)

Fluorescence spectroscopy
Energy transfer; Time-resolved fluorescence; Frequency-domain fluorescence; Melittin; Distance distribution (Lakowicz, J.R. (36) 99)

Fourier transform infrared spectroscopy
CD; pH effect; Secondary structure; Tetanus neurotoxin (Singh, B.R. (46) 155)

Frequency-domain fluorescence
Fluorescence spectroscopy; Energy transfer; Time-resolved fluorescence; Melittin; Distance distribution (Lakowicz, J.R. (36) 99)

Gel chromatography
Thermodynamic nonideality; Donnan effect; Excluded volume; Equilibrium dialysis; Ultrafiltration (Shearwin, K.E. (36) 235)

pH effect
CD; Fourier transform infrared spectroscopy; Secondary structure; Tetanus neurotoxin (Singh, B.R. (46) 155)

Hemichrome
Hemoglobin; Hydration; Conformational state (Colombo, M.F. (36) 33)

Hemoglobin
Hydration; Hemichrome; Conformational state (Colombo, M.F. (36) 33)

Hydration
Hemoglobin; Hemichrome; Conformational state (Colombo, M.F. (36) 33)

Hydrodynamic frictional coefficient
Osmotic flow; Polyelectrolyte; Semipermeable membrane (Williams, R.P.W. (36) 223)

Hydrophobicity
Local anesthetic; Excitable lipid membrane; Membrane potential; Membrane resistance; Diffusion constant (Iiyama, S. (36) 141)

Index space
Multiple equilibria; Chemical model; Partition function; Cooperativity; Computation (Fisicaro, E. (36) 15)

Ionic strength dependence
DNA binding; Theoretical model; Two-mode binding; Base sequence specificity; Modified matrix method (Feng, Y. (36) 117)

Lifetime
Fluorescence; Eosin; Myosin; Anisotropy; Perrin plot (VanderMeulen, D.L. (36) 177)

Lipid interaction
Liposome; Monolayer; Theoretical model (Hernandez-Borrell, J. (36) 47)

Liposome
Lipid interaction; Monolayer; Theoretical model (Hernandez-Borrell, J. (36) 47)

Local anesthetic
Excitable lipid membrane; Membrane potential; Membrane resistance; Hydrophobicity; Diffusion constant (Iiyama, S. (36) 141)

Excitable lipid membrane; Electrical oscillation; Membrane potential; Membrane resistance (Iiyama, S. (36) 149)

Lysozyme
Enzyme activity; Viscosity; Water affinity (Lamy, L. (36) 71)

Magic angle spinning ^{31}P-NMR
Membrane protein; Receptor phosphorylation; Photoreceptor; Rhodopsin (Albert, A.D. (35) 27)

Membrane potential
Local anesthetic; Excitable lipid membrane; Membrane resistance; Hydrophobicity; Diffusion constant (Iiyama, S. (36) 141)

Local anesthetic; Excitable lipid membrane; Electrical oscillation; Membrane resistance (Iiyama, S. (36) 149)

Membrane protein
Receptor phosphorylation; Magic angle spinning ^{31}P-NMR; Photoreceptor; Rhodopsin (Albert, A.D. (35) 27)

Membrane resistance
Local anesthetic; Excitable lipid membrane; Membrane potential; Hydrophobicity; Diffusion constant (Iiyama, S. (36) 141)

Local anesthetic; Excitable lipid membrane; Electrical oscillation; Membrane potential (Iiyama, S. (36) 149)

Melittin
Fluorescence spectroscopy; Energy transfer; Time-resolved fluorescence; Frequency-domain fluorescence; Distance distribution (Lakowicz, J.R. (36) 99)

Modified matrix method
DNA binding; Theoretical model; Two-mode binding; Base sequence specificity; Ionic strength dependence (Feng, Y. (36) 117)

Monolayer
Lipid interaction; Liposome; Theoretical model (Hernandez-Borrell, J. (36) 47)

Monte Carlo simulation
Data analysis; Residuals (Di Cera, E. (36) 85)

Multiple equilibria
Thermodynamics; Partition function; Site affinity; Cooperativity; Binding polynomial (Fisicaro, E. (36) 1)

Chemical model; Partition function; Index space; Cooperativity; Computation (Fisicaro, E. (36) 15)

Myosin
Fluorescence; Eosin; Anisotropy; Lifetime; Perrin plot (VanderMeulen, D.L. (36) 177)

Neutrophil
NMR, ^{1}H-; Relaxation; Nimodipine; Diltiazem; Adenosine (Gaggelli, E. (36) 209)

Nimodipine
NMR, ^{1}H-; Relaxation; Diltiazem; Adenosine; Neutrophil (Gaggelli, E. (36) 209)

^{1}H-NMR
Chloroquine; Self-association (Marchettini, N. (36) 65)

NMR, ^{1}H-
Relaxation; Nimodipine; Diltiazem; Adenosine; Neutrophil (Gaggelli, E. (36) 209)

NMR, ^{31}P-
ATP hydrolysis; Uncoupler; Dimethyl sulfoxide; F_1-ATPase (Shinohara, Y. (36) 201)

Osmotic flow
Proteoglycan; Cartilage; Cylindrical pore membrane (Comper, W.D. (36) 215)

Polyelectrolyte; Semipermeable membrane; Hydrodynamic frictional coefficient (Williams, R.P.W. (36) 223)

Partition function
Thermodynamics; Multiple equilibria; Site affinity; Cooperativity; Binding polynomial (Fisicaro, E. (36) 1)

Multiple equilibria; Chemical model; Index space; Cooperativity; Computation (Fisicaro, E. (36) 15)

Perrin plot
Fluorescence; Eosin; Myosin; Anisotropy; Lifetime (VanderMeulen, D.L. (36) 177)

Photoreceptor
Membrane protein; Receptor phosphorylation; Magic angle spinning ^{31}P-NMR; Rhodopsin (Albert, A.D. (35) 27)

Polyelectrolyte
Osmotic flow; Semipermeable membrane; Hydrodynamic frictional coefficient (Williams, R.P.W. (36) 223)

Polypeptide conformation
Conformational energy; Dipole moment; Polypeptide dimensions (Rowe, G. (36) 57)

Polypeptide dimensions
Conformational energy; Dipole moment; Polypeptide conformation (Rowe, G. (36) 57)

Proteoglycan
Osmotic flow; Cartilage; Cylindrical pore membrane (Comper, W.D. (36) 215)

Receptor phosphorylation
Membrane protein; Magic angle spinning ^{31}P-NMR; Photoreceptor; Rhodopsin (Albert, A.D. (35) 27)

Relaxation
NMR, ^{1}H-; Nimodipine; Diltiazem; Adenosine; Neutrophil (Gaggelli, E. (36) 209)

Residuals
Data analysis; Monte Carlo simulation (Di Cera, E. (36) 85)

Rhodopsin
Membrane protein; Receptor phosphorylation; Magic angle spinning ^{31}P-NMR; Photoreceptor (Albert, A.D. (35) 27)

Secondary structure
CD; Fourier transform infrared spectroscopy; pH effect; Tetanus neurotoxin (Singh, B.R. (46) 155)

Self-association
Chloroquine; ^{1}H-NMR (Marchettini, N. (36) 65)

Semipermeable membrane
Osmotic flow; Polyelectrolyte; Hydrodynamic frictional coefficient (Williams, R.P.W. (36) 223)

Site affinity
Thermodynamics; Multiple equilibria; Partition function; Cooperativity; Binding polynomial (Fisicaro, E. (36) 1)

Superoxide dismutase
Time-resolved fluorescence: Fluorescence lifetime distribution; (Human) (Rosato, N. (36) 41)

Tetanus neurotoxin
CD; Fourier transform infrared spectroscopy; pH effect; Secondary structure (Singh, B.R. (46) 155)

Theoretical model
Lipid interaction; Liposome; Monolayer (Hernandez-Borrell, J. (36) 47)

DNA binding; Two-mode binding; Base sequence specificity; Ionic strength dependence; Modified matrix method (Feng, Y. (36) 117)

Thermodynamic nonideality
Donnan effect; Excluded volume; Gel chromatography; Equilibrium dialysis; Ultrafiltration (Shearwin, K.E. (36) 235)

Thermodynamics
Multiple equilibria; Partition function; Site affinity; Cooperativity; Binding polynomial (Fisicaro, E. (36) 1)

Cooperativity; Enzyme kinetics (De Cristofaro, R. (36) 77)

Time-resolved fluorescence
Fluorescence spectroscopy; Energy transfer; Frequency-domain fluorescence; Melittin; Distance distribution (Lakowicz, J.R. (36) 99)

Time-resolved fluorescence: Fluorescence lifetime distribution
Superoxide dismutase; (Human) (Rosato, N. (36) 41)

Two-mode binding
DNA binding; Theoretical model; Base sequence specificity; Ionic strength dependence; Modified matrix method (Feng, Y. (36) 117)

Ultrafiltration
Thermodynamic nonideality; Donnan effect; Excluded volume; Gel chromatography; Equilibrium dialysis (Shearwin, K.E. (36) 235)

Uncoupler
ATP hydrolysis; NMR, ^{31}P-; Dimethyl sulfoxide; F_1-ATPase (Shinohara, Y. (36) 201)

Variability
Binding parameters; Binding analysis; Experimental design (Boiden Pedersen, J. (36) 167)

Viscosity
Enzyme activity; Lysozyme; Water affinity (Lamy, L. (36) 71)

Water affinity
Enzyme activity; Lysozyme; Viscosity (Lamy, L. (36) 71)

Announcements

Second International Conference on Sodium / Calcium Exchange

Baltimore Marriott Inner Harbor, Baltimore, MD, 8–12 April 1991

Sponsored by The New York Academy of Sciences

Theme: The plasma membrane sodium/calcium exchange system regulates intracellular calcium levels in many kinds of cells. It controls cardiac and smooth muscle contractility, visual adaptation in retinal photoreceptors, and calcium homeostasis in neurons, secretory cells and transporting epithelia. It may also participate in the pathogenesis of salt-dependent hypertension. The conference will emphasize properties, physiological significance and pathophysiological roles of sodium/calcium exchangers from various tissues.

Conference Chairmen:

Dr M.P. Blaustein
Dept of Physiology
University of Maryland
School of Medicine
655 W. Baltimore St.
Baltimore, MD 21201
U.S.A.

Dr R. Dipolo
Centro de Biofisica y Bioquimica
Instituto Venezola de Investigaciones Cientificas (IVIC)
Apartado 21827
Caracas 1020A
Venezuela

Dr J.P. Reeves
Roche Institute of Molecular Biology
Roche Research Center
Nutley, NJ 07110
U.S.A.

There will be poster sessions in conjunction with the conference.
Deadline for submission of poster abstracts: 15 November 1990
[Entire abstract must be typed, single spaced, contained within a rectangle measuring $5 \times 4\frac{3}{8}$ inches, and sent to Dr Blaustein at the address above]

For further information contact:

Conference Dept, The New York Academy of Sciences, 2 East 63rd St., New York, NY 10021, U.S.A. (Tel: 212-838-0230; Fax: 212-888-2894)